## CONSTRUCTION VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

	1		Date 8/10/09
Contract ID	090320-702		Job No. J7P2165
County Bate		Route 71	Original Bid Cost \$2,961,424.56
	APAC-Missouri, Inc.		By David Wilkins
Designed By	APAC-Missouri, Inc.		Phone 417-868-6700
	09-65 of existing requirement	nts and proposed cha	nge(s). Advantages/Disadvantages
We propose to tons of SP0950 scratch mill. I 2 to 1" BP-2. The scratch mills are to 1" BP-2.	perform a ½" scratch in the control of the control	mill over the mainline irregularities, to be el 2'', we would also be oproximately 4,613 to off the project, enough	e mainline and 1.5" BP-2 over the shoulders. e. This would allow for approximately 4,894. liminated due to grade control provided by the able to thin the shoulders down from 1.5" BP ons of BP-2.  ugh to place back into the SP095C 70-22 mix the SP095C 70-22, however, we were going to
have to haul th of the cost of the savings can be	e rap in from other loc ne SP095C 70-22. Ther realized in the V.E.	ations. The cost of ha efore, if we do not ha	auling this rap amounted to \$2.83/WET TON ve to haul the rap in for this project, that
	i mill would make this j the one built on J7P085		ofilograph bonus. This typical section would lar Counties.
engineering is i proposal. We a reduction as a i	required, MoDOT performers and mitting this as a result of this V.E. APA	orm the engineering a VE 50/50 split. APAC C to retain all asphali	osal. We are requesting that if any at no cost to APAC-Missouri, Inc or this C will accept no liability due to any DBE t bonuses/deducts and those bonuses/deducts tain all asphalt millings.
The advantage a lower cost to		ch mill on this projec	ct is that it should provide a better product at
APÁC-M	Aissouri, Inc. does not f	oresee any disadvanta	ages to the above proposal.
		The esting	mated net savings is \$432,702.64.
2. Estimate of	reduction in construction	on costs.	
. Prediction o			e on other department costs, such as

APAC-Missouri Inc	foresees no additional	costs for MODOT
ALF ALL=(YHSSORIFI, TRC.	เคยองคร ทก วิติสมัยการ	cocte for Will H H F I

4. Anticipated date for subm Specifications.	nittal of detailed change(s) of ite	ems required by Sec	tion 104.6 of the
	N/A (date)	<u>-</u>	
5. Deadline for issuing a cha- completion time or deliver	nge order to obtain maximum ory schedule.	cost reduction, notin	g the effect of contract
August 20, 2009	No change to completion d	late or schedule.	
(date)		(effect)	
6. Dates of any previous or co	oncurrent submission of the sar	ne proposal.	
	N/A	<u> </u>	
•	(date and/or dates)		
		•	
Additional Comments:			
** Port	tion Below This Line To Be Fille	ed Out by MoDOT **	k
using this	final savings shows proposal.	RE	8-11-09
	Submitted By Resident Engineer		- Date

Comments:

Value Engineering Proposal, dot

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	- 4 - 20 - 4	ð
Approval Recommended	Berky Balt	8-12-09
Rejection	District Engineer	Date
Recommended		27.
Comments:	PROVED PAR DISTRICT PRO	COMMENDATION.
	La Company of his	2
Approval	MI DISTANTINE	8-18-09
☐ Rejection	State Construction and Materials Engineer	Date

Distribution:

Resident Engineer, Project Manager, District Operations Engineer, State Construction and Materials Engineer \*Value Engineering Administrator - \*MoDOT, P.O. Box 270, Jefferson City, MO 65102

## Rt. 71 Bates County

Original Contract

Units Unit Price Total	TONS 651 50 6740 000 00	00.000 00.100	TONS \$64 85 \$1 801 250 05	7.000,100,100,100	Total : \$2,614 320 5E	00.000,110,20	
Bid Quantity	13980 2	1.00001	29165 TOI		- ;	(; •	•
Item Number Item Description	10 BP-2 64-22	200000000000000000000000000000000000000	ZU SPUSSC (0-22				

VE Proposal

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•	Total	OT OFF COTE	00.01 4.204	#400 00E E4	<b>•</b>	\$62 02 \$4 505 224 BD	41,000,100	S2 178 627 91	2
	Unit Price Total	95.4 EO	00.1.00	\$0 B7	40.01	\$62.02	404.04	Total	
,	Units	9 367 20 TONIS	2	λς.		24.270.10 TONS	1		
	Bid Quanfity	9 367.2	7,100,0	285053 SY		24.270.1			
	· · .:	,				VIII ****			
	. •					from Scratch			•
١.	Item Description	10 BP-2 64-22		TAT SCRALCH MILL	THE COUNTY OF THE PARTY	JUNESO TU-ZZ W/ KAP from Scratch Mill****		z. ·	
	lem Number	10	***	- YYY	0444				

Total Savings

\$432,702.64

\* 1/2" Scratch mill was figured by taking the entire mainline area, less established contract milling pay items quanitity (Items 160 and 170). These milling items (Items 160 and 170) will be paid in addition to the scratch mill and not under ran.

\*\*\*SP095C bid with 20% rap and hauling rap from other locations. By milling rap off of project with scratch mill, we are able to eliminate the hauling of the rap and give the discount to MoDOT.

## VALUE ENGINEERING CHECK SHEET

## TYPE OF WORK (Check one that applies) Bridge/Structure/Footings Drainage Structures (RCP, RCB, CMP's, ect.) TCP/MOT X Paving (PCCP, ect.) Grading/MSE Walls Signal/Lighting/ITS Misc. \_\_\_\_\_

SUMMARY OF PROPOSAL (If needed, condense summary to a couple of lines)	
Use scratch-mill in lieu of planned level course for asphalt overlay.	

SCANNING OF DOCUMENT
If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.
Scan entire document.